# **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

#### LISTING OF CLAIMS

1. (Currently Amended) A positioning system for determining a position of a positioning terminal, the system including a plurality of first signal sources each emitting a respective first signal, and one or more second signal sources each emitting a respective second signal, the first signals being synchronous with a reference time and the second signals being non-synchronous with the first signals, for, based on a signal propagation time and signal propagation speed of the first signals, determining a distance from the positioning terminal, said positioning system comprising:

a measurement device for receiving the first signals from the first signal sources to determine a position P of the measurement device and a time of measurement when the measurement device receives the first signals and for, based on the time of measurement, measuring a receiving time (TR), based on the reference time, of a predetermined event of the second signals;

a control device for determining a signal propagation time (t) between the measurement device and one of the second signal sources by calculating a relative distance |P-Q| between the measurement device and the one second signal source based on the position P measured by the measurement device and a position Q of the one second signal source and by dividing the resulting distance by the signal

propagation speed, and determining a time (TT), based on the reference time, at which the one second signal source originates the predetermined event by solving TR-t;

the positioning terminal having a receiving device for receiving the signals from the first and second signal sources; and

a communication device for communicating between the control device and the positioning terminal,

wherein the positioning terminal uses the time TT to limit a search for the signals from the first signal sources, and uses the signals from the first signal sources for determining the position of the positioning terminal;

wherein the measurement device further comprises a mobile terminal in good conditions;

wherein the position P of the measurement device can be determined without accurate time information; and

wherein the measurement device measures P and TR and voluntarily reports the measured P and TR to the control device.

2. (Currently Amended) A positioning system for determining a position of a positioning terminal, the system including a plurality of first signal sources each emitting a respective first signal, and one or more second signal sources each emitting a respective second signal, the first signals being synchronous with a reference time and the second signals being non-synchronous with the first signals, for, based on a signal propagation time and signal propagation speed of at least one of the first and second

signal sources so as to determine a position of the positioning terminal, said positioning system comprising:

a measurement device associated with each second signal source for receiving the first signals from the first signal sources to determine a position P of the measurement device and a time of measurement when the measurement device receives the first signals and for, based on the time of measurement, measuring a receiving time (TR), based on the reference time, of a predetermining event of the second signals;

a control device for determining a signal propagation time (t) between the measurement device and its associated second signal source by calculating a relative distance |P-Q| between the measurement device and its associated second signal source based on the position P measured by the measurement device and a position Q of the second signal source and by dividing the resulting distance by the signal propagation speed, and for determining a time (TT), based on the reference time, at which the second signal source originates the predetermined event by solving TR-t;

the positioning terminal having a receiving device for receiving the signals from the first and second signal sources; and

a communication device for communicating between the control device and the positioning terminal,

wherein the positioning terminal uses the time TT <u>as a reference to receive</u> to limit a search for the first signals and receives the first and second signals for determining the position of the positioning terminal;

wherein the measurement device further comprises a mobile terminal in good conditions;

wherein the position P of the measurement device can be determined without accurate time information; and

wherein the measurement device measures P and TR and voluntarily reports the measured P and TR to the control device.

- 3. (Original) The positioning system according to claim 1, wherein the first signal sources further comprise GPS satellites.
- 4. (Original) The positioning system according to claim 1, wherein the second signal sources further comprise base stations of a mobile communication network.
  - 5. (Cancelled).
- 6. (Currently Amended) The positioning system according to claim 1, wherein the measurement device further comprises a mobile terminal in good conditions, where the position P of the measurement device can be determined without accurate time information, and measures P and TR according to a request from the control device in the same mobile communication network to report the measured P and TR to the control device.

- 7. (Original) A positioning system according to claim 1, wherein the second signal sources further comprise television broadcast stations.
- 8. (Original) The positioning system according to claim 2, wherein the first signal sources further comprise GPS satellites.
- 9. (Original) The positioning system according to claim 2, wherein the second signal sources further comprise base stations of a mobile communication network.

### 10. (Cancelled)

- 11. (Currently Amended) The positioning system according to claim 2, wherein the measurement device further comprises a mobile terminal in good conditions, where the position P of the measurement device can be determined without accurate time information, and measures P and TR according to a request from the control device in the same network to report the measured P and TR to the control device.
- 12. (Previously Presented) The positioning system according to claim 1, wherein the second signal sources further comprise television broadcast stations.
- 13. (Currently Amended) A positioning terminal for determining a position of the positioning terminal, the positioning terminal including a receiving device for receiving signals from a plurality of first signal sources each emitting a respective first signal and

one or more second signal sources each emitting a respective second signal, the first signals being synchronous with a reference time and the second signals being non-synchronous with the first signals, for, based on a signal propagation time and signal propagation speed of the first signals, determining a distance from the positioning terminal, said positioning terminal comprising:

a calculation device for calculating TT=TR-|P-Q|/c;

wherein the P is a position of a measurement device when the measurement device received the first signals from the first signal sources;

the Q is a position of the one second signal source;

the |P-Q| is a relative distance between the measurement device and the one second source;

the c is a signal propagation speed;

the TR is a receiving time, based on the reference time, when the measurement device received a predetermined event of the second signals at the position P;

wherein the positioning terminal uses the time TT to limit a search for the signals from the first signal sources, and uses the signals from the first signal sources for determining the position of the positioning terminal;

wherein the measurement device further comprises a mobile terminal in good conditions;

wherein the position P of the measurement device can be determined without accurate time information; and

wherein the measurement device measures P and TR and voluntarily reports the measured P and TR to a control device in the same mobile communication network.

14. (Currently Amended) A positioning terminal for determining a position of the positioning terminal, the positioning terminal including a receiving device for receiving signals from a plurality of first signal sources each emitting a respective first signal and one or more second signal sources each emitting a respective second signal, the first signals being synchronous with a reference time and the second signals being non-synchronous with the first signals, for, based on a signal propagation time and signal propagation speed of at least one of the first and second sources so as to determine a position of the positioning terminal, said positioning terminal comprising:

a calculation device for calculating TT=TR-|P-Q|/c;

wherein the P is a position of a measurement device when the measurement device received the first signals from the first signal sources;

the Q is a position of the one second signal source;

the |P-Q| is a relative distance between the measurement device and the one second source;

the c is a signal propagation speed;

the TR is a receiving time, based on the reference time, when the measurement device received a predetermined event of the second signals at the position P;

wherein the positioning terminal uses the time TT to limit a search for as a reference to receive the signals from the first signal sources and [[;]] wherein the positioning terminal receives the first and second signals for determining the position of the positioning terminal;

wherein the measurement device further comprises a mobile terminal in good conditions;

wherein the position P of the measurement device can be determined without accurate time information; and

wherein the measurement device measures P and TR and voluntarily reports the measured P and TR to a control device in the same mobile communication network.

- 15. (Previously Presented) The positioning terminal according to claim 13, wherein the first signal sources further comprise GPS satellites.
- 16. (Previously Presented) The positioning terminal according to claim 13, wherein the second signal sources further comprise base stations of a mobile communication network.

# 17. (Cancelled)

18. (Currently Amended) The positioning terminal according to claim 13, wherein the measurement device further comprises a mobile terminal in good conditions, where the position P of the measurement device can be determined without accurate time information, and measures P and TR according to a request from the control device in the same mobile communication network to report the measured P and TR to the control device.

- 19. (Previously Presented) The positioning terminal according to claim 13, wherein the second signal sources further comprise television broadcast stations.
- 20. (Previously Presented) The positioning terminal according to claim 14, wherein the first signal sources further comprise GPS satellites.
- 21. (Previously Presented) The positioning terminal according to claim 14, wherein the second signal sources further comprise base stations of a mobile communication network.

## 22. (Cancelled)

- 23. (Currently Amended) The positioning terminal according to claim 14, wherein the measurement device further comprises a mobile terminal in good conditions, where the position P of the measurement device can be determined without accurate time information, and measures P and TR according to a request from the control device in the same network to report the measured P and TR to the control device.
- 24. (Previously Presented) The positioning terminal according to claim 13, wherein the second signal sources further comprise television broadcast stations.